

Amendments to the Claims

This listing of claims will replace prior versions and listings of claims in the application:

Listing of Claims

1.-44. (canceled)

45. (currently amended) An isolated ~~sentrin-specific-protease-(SEN^P)~~ polypeptide comprising the amino acid sequence PIH^L/_RXVHW wherein X is a glycine, lysine or glutamic acid.

46. (previously presented) The isolated polypeptide of claim 45, comprising at least 25 contiguous amino acid residues of SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

47. (previously presented) The isolated polypeptide of claim 45, comprising at least 50 contiguous amino acid residues of SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

48. (previously presented) The isolated polypeptide of claim 45, comprising at least 100 contiguous amino acid residues of SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

49. (previously presented) The isolated polypeptide of claim 45, comprising at least 150 contiguous amino acid residues of SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

50. (previously presented) The isolated polypeptide of claim 45, comprising at least 200 contiguous amino acid residues of SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

51. (previously presented) The isolated polypeptide of claim 48, further comprising amino acid residues 400 to 509 of SEQ ID NO: 8.

52. (canceled)

53. (previously presented) The isolated polypeptide of claim 48, further comprising amino acid residues 461 to 568 of SEQ ID NO: 10.

54. (previously presented) The isolated polypeptide of claim 45, comprising SEQ ID NO: 2, SEQ ID NO: 8, or SEQ ID NO: 10.

55. (currently amended) An isolated polypeptide comprising at least 25 contiguous amino acids of SEQ ID NO: 2 a-sentrin-specific-protease-SEN^P1.

56. (cancelled)

57. (previously presented) The isolated polypeptide of claim 55, comprising at least 50 contiguous amino acids of SEQ ID NO: 2.

58. (previously presented) The isolated polypeptide of claim 55, comprising at least 100 contiguous amino acids of SEQ ID NO: 2.
59. (previously presented) The isolated polypeptide of claim 55, comprising at least 150 contiguous amino acids of SEQ ID NO: 2.
60. (previously presented) The isolated polypeptide of claim 55, comprising at least 200 contiguous amino acids of SEQ ID NO: 2.
61. (canceled)
62. (canceled)
63. (currently amended) The isolated polypeptide of claim 55, wherein the ~~SEN~~P1 polypeptide comprises SEQ ID NO: 2.
64. (canceled)
65. (canceled)
66. (New) A method of purifying the polypeptide of claim 55 from a sample comprising collecting a sentrin-specific protease polypeptide sample; incubating the sample with an antibody that specifically binds the SENP1 polypeptide; and obtaining the SENP1 polypeptide.
67. (New) The method of claim 64, wherein the purified SENP1 polypeptide comprises the amino acid sequence of SEQ ID NO: 2.
68. (New) The isolated polypeptide of claim 45, comprising the amino acid sequence PIHLGVHW, PIHRKVHW, or PIHLEVHW.